

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A vital data utilization system comprising:

a server;

a receiving apparatus; and

a plurality of measurement instruments,

wherein said server, said receiving apparatus and said measurement instruments are connected to each other via a communication network,

wherein each of said measurement instruments includes:

a vital data measurement ~~unit~~device operable to measure vital data of a respective subject, the vital data serving as an indicator of infection; and

a sending ~~unit~~device operable to send, to said server, the measured vital data,

wherein said server includes:

a receiving ~~unit~~device operable to receive a plurality of vital data including the measured vital data, the plurality of vital data being received from said plurality of measurement instruments, ~~a plurality of vital data, one of which being the vital data~~;

a storage ~~unit~~device operable to ~~store~~hold each vital data of the plurality of received vital data, each vital data being stored in association with at least one of (i) measurement position information indicating a position of ~~said each~~ a respective measurement instrument of said plurality of measurement instruments and (ii) residence information indicating a position of a respective ~~each subject's~~ residence of a subject at which ~~said each~~ the respective measurement instrument is placed;

a database making ~~unit~~device operable to store ~~the received~~ plurality of received

vital data into said storage ~~unit~~device and operable to make a database including the plurality of received vital data, each respective vital data of the plurality received of vital data being stored in the database in association with at least one of the (i) measurement position information and (ii) residence information;

a value-added information making ~~unit~~device operable to process each compute-
~~the respective vital data stored in the database for each respective subject identified of a plurality of subjects stored in the database, the processing being based on the~~ at least one of the (i) measurement position information and (ii) residence information, associated with each respective vital data stored in the database, and operable to make, from the processed vital data, value-added information indicating, using contour lines on a map, a geographical distribution of epidemic degrees of the infection indicated by each respective-~~the~~ vital data stored in the database; and

a value-added information providing ~~unit~~device operable to provide said receiving apparatus with the ~~made~~ value-added information, and

wherein said receiving apparatus includes~~[[:]]~~ an output ~~unit~~device operable to receive the value-added information provided by said value-added information providing ~~unit~~device, and operable to present and output, by presenting, the value-added information using the contour lines on the map, the geographical distribution of the epidemic degrees of the infection.

Claim 2 (Currently Amended) The vital data utilization system according to Claim 1,

wherein each measurement instrument of said plurality of measurement instruments
further ~~includes~~

——a clock ~~unit~~device operable to detect a measurement time at which the vital data is
measured,

wherein said sending ~~unit~~device is operable to send, to said server, a set of information
including the measured vital data and ~~further~~ the measurement time,

—— ~~wherein, in said server,~~

wherein said receiving ~~unit~~device of said server is operable to receive, from said plurality
of measurement instruments, a plurality of sets of information,

wherein said storage ~~unit~~device of said server is operable to ~~store~~hold the plurality of
sets of information, each respective set of information including ~~the respective~~ vital data and ~~the~~
a respective measurement time and each respective set of information being stored in association
with at least one of the (i) measurement position information and (ii) residence information,

wherein said database making ~~unit~~device of said server is operable to store the ~~received~~
plurality of received sets of information into said storage ~~unit~~device and operable to make a
database including the plurality of received sets of information, each respective set of
information being stored in the database in association with at least one of the (i) measurement
position information and (ii) residence information, and

wherein said value-added information making ~~unit~~device of said server is operable to
process each respective ~~compute~~ the vital data of each respective set of information stored in the

database for each respective subject identified of the plurality of subjects stored in the database in association with the a respective measurement time and operable to make, from the processed respective vital data stored in the database for each subject identified in the database in association with the respective measurement time, value-added information indicating, using contour lines on maps, changes over time of the geographical distributions of epidemic degrees of the infection indicated by the subjects' each respective vital data.

Claim 3 (Currently Amended) The vital data utilization system according to Claim 1, wherein said vital data measurement ~~unit~~device is operable to quantitatively measure the subjects' vital data.

Claim 4 (Currently Amended) The vital data utilization system according to Claim 1, wherein said sending ~~unit~~device is operable to ~~further~~ add, to respective sets of information, each respective set of information including respective vital data, respective measurement instrument identification information for identifying a corresponding measurement instrument and operable to send the respective sets of information including the respective measurement identification information to said server,

wherein said storage unit is operable to store the plurality of sets of information, each respective set of information including respective vital data and respective measurement instrument identification information and each respective set of information being stored in association with at least one of the (i) measurement position information and (ii) residence information.

~~said storage unit is operable to store at least one of the (i) measurement position information indicating the position of the respective measurement instruments and (ii) residence information indicating the positions of the subjects' residence at which the respective measurement instruments are placed, and~~

wherein said value-added information making unit/device is operable to read out, from said storage unit/device, at least one of the (i) measurement position information and (ii) residence information, based on the received measurement instrument identification information, received from the server, and operable to compute/process the respective vital data based on at least one of the read-out information.

Claim 5 (Currently Amended) The vital data utilization system according to Claim 1, wherein said sending unit/device is operable to ~~further~~ add, to respective sets of information, each respective set of information including respective vital data, at least one of the (i) measurement position information ~~indicating the positions of the respective measurement instruments~~ and (ii) residence information ~~indicating the positions of the subjects' residence at which the respective measurement instruments are placed~~, and operable to send the resulting respective sets of information to said server, and

wherein said value-added information making unit/device is operable to process/compute the respective vital data, of each respective set of information received from said sending unit, based on at least one of the (i) received measurement position information received from said sending device and (ii) residence information received from said sending device.

Claim 6 (Currently Amended) The vital data utilization system according to Claim 1, wherein said database making ~~unit~~device is operable to update the database each time of receiving at least one new set of information including the vital data is received, and wherein said value-added information making ~~unit~~device is operable to update the value-added information based on the updated database.

Claim 7 (Currently Amended) The vital data utilization system according to Claim 1, wherein said receiving apparatus is placed in at least one of a hospital, a public facility excluding ~~except~~ a hospital, and ~~subject's~~ a house of a subject.

Claim 8 (Cancelled)

Claim 9 (Currently Amended) The vital data utilization system according to Claim 1-Claim 8, wherein the vital data ~~which is an indicator of an infection~~ is at least one of body temperature, blood pressure, pulse, cardiograph, oxygen saturation in blood, accelerated pulse wave velocity, ~~the~~ a number of white blood cells, C-reactive protein concentration in blood (CRP), protein concentration in urine, glucose concentration in urine, amino acid concentration in urine and feces viscosity.

Claim 10 (Currently Amended) The vital data utilization system according to Claim 9, wherein the protein concentration in urine is at least one of albumin, globulin, hemoglobin and myoglobin.

Claim 11 (Currently Amended) The vital data utilization system according to Claim 1, wherein said vital data measurement ~~unit~~device ~~is located~~is placed at housing equipment in a house of the subject~~subject's house~~.

Claim 12 (Currently Amended) The vital data utilization system according to Claim 11, wherein the housing equipment is one of a toilet apparatus ~~and~~or a bed, and wherein said vital data measurement ~~unit~~device includes at least one of a thermometer, a blood-pressure meter, a pulsimeter, an electrocardiograph, and a meter of oxygen saturation in blood, ~~that are~~ for measuring the vital data, and said vital data measurement ~~unit~~device measures the vital data ~~at the~~at a time when the subject uses one of the toilet apparatus ~~or~~and the bed.

Claim 13 (Currently Amended) The vital data utilization system according to Claim 11, wherein the housing equipment is a toilet apparatus, and wherein said vital data measurement ~~unit~~device includes a urine analyzer and measures the vital data ~~at a~~at the time when the subject uses the toilet apparatus.

Claim 14 (Currently Amended) The vital data utilization system according to Claim 13, wherein the urine analyzer (i) mixes urine of the subject and a reagent including an antibody that specifically combines with an analysis target component, (ii) measures turbidity of a resulting mixed solution, and (iii) measures the analysis target component in the urine.

Claim 15 (Currently Amended) The vital data utilization system according to Claim 1,
———wherein said server further includes
———a charging ~~unit~~device operable to calculate a charge for value-added information
provided to said receiving apparatus.

Claim 16 (Currently Amended) The vital data utilization system according to Claim 15,
———wherein said server further includes
———an incentive calculation ~~unit~~device operable to calculate an incentive ~~to~~ for each subject.

Claim 17 (Currently Amended) The vital data utilization system according to Claim 16,
wherein said incentive calculation ~~unit~~device is operable to add, to a charge calculated by said
charging ~~unit~~device, a value of the incentive ~~to~~ for each subject.

Claim 18 (Currently Amended) The vital data utilization system according to Claim 16,
wherein said incentive calculation ~~unit~~device is operable to calculate points to be exchanged for
at least one of (i) a right to receive the value-added information, (ii) a right to receive a discount
from a rate of the value-added information, (iii) a right to receive a free distribution of or a
discount from a sale price of a commodity to be used by said vital data measurement ~~unit~~device,
(iv) a right to receive another service, and (v) a right to receive a free distribution of or a
discount from a sale price of another commodity.

Claim 19 (Currently Amended) The vital data utilization system according to Claim 1,

wherein said receiving apparatus is a mobile type apparatus and further includes a present position detection ~~unit~~device operable to detect a present position, and

wherein said output ~~unit~~device is operable to receive value-added information indicating a geographical distribution of epidemic degrees of the infection indicated by each respective the vital data of the respective subjects located ~~who are~~ at the detected present position and located at a peripheral part of the detected present position, and operable to present and output, ~~by presenting, the value-added information using contour lines on a map, the geographical distribution of the epidemic degrees of the infection.~~

Claim 20 (Currently Amended) A server in a system in which said server, a receiving apparatus and a plurality measurement instruments are connected ~~to each other~~ via a communication network, said server comprising:

a receiving ~~unit~~device operable to receive a plurality of sets of information, each respective set of information including respective measured vital data and a respective measurement time at which the respective vital data is measured, the plurality of sets of information being received from a the plurality of measurement instruments, ~~a plurality of sets of information including measured vital data and measurement time, the vital data serving as an indicator of infection;~~

a storage ~~unit~~device operable to ~~store hold each respective set of information of the~~ plurality of received sets of information, each respective set of information being stored in association with at least one of (i) measurement position information indicating a position of ~~the~~ each a respective measurement instrument of the plurality of measurement instruments and (ii)

residence information indicating a position of ~~a respective each subject's residence of a subject at~~
which ~~the each the~~ respective measurement instrument is placed;

a database making ~~unit~~device operable to store the ~~received~~ plurality of ~~received~~ sets of
-information into said storage ~~unit~~device and operable to make a database including the plurality
of received sets of information, each respective set of information of the plurality of received
sets of information being stored in the database in association with at least one of the (i)
measurement position information and (ii) residence information;

a value-added information making ~~unit~~device operable to process each ~~compute the~~
respective vital data of each respective set of information stored in the database for each
respective subject identified of a plurality of subjects stored in the database in association with-
~~the a~~ respective measurement time at which respective vital data is measured, and operable to
make, from the processed respective vital data stored in the database for each subject identified
in the database in association with the respective measurement time, value-added information-
~~having an additional value indicating, using contour lines on maps, a geographical distributions-~~
distribution of epidemic degrees of the infection indicated by each respective ~~the~~ vital data or
changes over time of the geographical distributions of epidemic degrees of the infection
indicated by each respective vital data, based on at least one of the measurement position
information and the residence information; and

a value-added information providing ~~unit~~device operable to provide the receiving
apparatus with the ~~made~~ value-added information.

Claim 21 (Currently Amended) The server according to Claim 20,

wherein said receiving ~~unit~~device is operable to receive, from ~~the respective each~~ respective measurement instrument-instruments, ~~a respective set-sets~~ of information to which measurement instrument identification information ~~for identifying the respective-respectively-~~ corresponding measurement instrument-instruments ~~are further is~~ added,

wherein said storage ~~unit~~device is operable to previously ~~hold store~~ at least one of the (i) measurement position information ~~indicating positions of the respective measurement-instruments~~ and (ii) residence information ~~indicating positions of subjects' residences at which the respective measurement instruments are placed~~, and

wherein said value-added information making unitdevice is operable to read out, from said storage ~~unit~~device, at least one of the (i) measurement position information and (ii) residence information, based on the received measurement instrument identification information, and operable to ~~process-compute~~ the respective vital data based on at least one of the read-out information.

Claim 22 (Currently Amended) The server according to Claim 20,

wherein said receiving ~~unit~~device is operable to receive, from ~~the each~~ respective measurement instrument-instruments, ~~the sets a respective set~~ of information to which at least one of the (i) measurement position information ~~indicating the position of the each measurement-instrument~~ and (ii) residence information ~~indicating the position of each subject's residence~~ is further added, and

wherein said value-added information making unitdevice is operable to ~~process-compute~~ the ~~respective-each~~ vital data based on at least one of the (i) received measurement instrument

position information and (ii) received residence information.

Claim 23 (Currently Amended) The server according to Claim 20,

wherein said database making unitdevice is operable to update the database each time of receiving at least one new set of information including the measured vital data is received, and wherein said value-added information making unitdevice is operable to update the value-added information based on the updated database.

Claim 24 (Currently Amended) A vital data utilization method of using ~~used for~~ a system in which a server, a receiving apparatus, and a plurality of measurement instruments are connected to ~~each other~~ via a communication network, said vital data utilization method comprising:

using each respective in the measurement instrument-instruments for:[,]

measuring respective vital data of a respective subject, the vital data serving as an indicator of infection;

detecting a respective measurement time at which the respective vital data is measured; and

sending, to the server, a respective set of information including the measured respective vital data and the respective measurement time[[,]];

using ~~in~~ the server, including a storage unitdevice operable to ~~hold store~~ a plurality of sets of information, each set of information including measured respective vital data and a respective measurement time, one of which being the set of information, for;

receiving, from the plurality of measurement instruments, the plurality of sets of

information, ~~one of which being the set of information;~~

storing each respective set of information of the received plurality of received
sets of information into the storage ~~unit~~device, each respective set of information being stored in
association with at least one of (i) measurement position information indicating a position-
~~positions of the a~~ respective measurement instrument of the plurality of measurement
instruments and (ii) residence information indicating a position-positions of a respective-subjects²
~~residences~~ residence of a subject at which the respective measurement instrument is-instruments-
~~are placed-and;~~

making a database including the plurality of received sets of information;

making value-added information indicating, using contour lines on maps, a
geographical ~~distributions~~ distribution of epidemic degrees of the infection indicated by-the each
respective vital data or changes over time of the geographical distributions based on at least one
of the (i) measurement position information and (ii) residence information associated with-
included in each respective set-the sets of information identifying-of a respective subject-plurality
of subjects that are stored in the database; and

providing the receiving apparatus with the ~~made~~ value-added information, ~~and;~~
and

using in the receiving apparatus[[],] for presenting and outputting the value-added
information provided in said providing of the value-added information.

Claim 25 (Currently Amended) A vital data utilization method of using-for a server in a
system in which the server, a receiving apparatus, and a plurality of measurement instruments are

connected to each other via a communication network, the server further including a storage unit and a device operable to hold store sets of information including of vital data, the said vital data utilization method comprising:

receiving, from the plurality of measurement instruments, a plurality of sets of information, each respective set of information including measured a respective vital data and respective measurement time at which the respective vital data is measured, the vital data serving as an indicator of infection;

storing each respective set of information of the received plurality of received sets of information into the storage unit and device, each respective set of information being stored in association with at least one of (i) measurement position information indicating a position- positions of the a respective measurement instrument of the plurality of measurement instruments and (ii) residence information indicating a postion- positions of a respective residence of a respective subject-subjects' residences at which the respective measurement instrument is- instruments are placed; and

making a database including the plurality of received sets of information;

making value-added information indicating, using contour lines on maps, a geographical distributions distribution of epidemic degrees of the infection indicated by the each respective vital data or changes over time of the geographical distributions based on at least one of the (i) measurement position information and (ii) residence information included in each respective set- the sets of information identifying a respective subject-of the plurality of subjects that are stored in the database; and

providing the receiving apparatus with the ~~made~~ value-added information.

Claim 26 (Cancelled)

Claim 27 (Currently Amended) A computer-readable recording medium having a program recorded thereon on which a computer-executable program is recorded, the program causing a computer to execute a method comprising:

receiving, from a plurality of measurement instruments, a plurality of sets of information, each respective set of information including measured respective vital data and a respective measurement time at which the respective vital data is measured, the vital data serving as an indicator of infection;

storing each respective set of information of the ~~received~~ plurality of sets of information into the storage ~~unit~~ device, each respective set of information being stored in association with at least one of (i) measurement position information indicating a position ~~positions of the a~~ respective measurement instrument of the plurality of measurement instruments and (ii) residence information indicating a position ~~positions of a~~ respective residence of a respective subject ~~subjects' residences~~ at which the respective measurement instrument is ~~instruments are~~ placed; and

making a database including the plurality of received sets of information;

making value-added information indicating, using contour lines on maps, ~~a~~ geographical distributions ~~distribution of epidemic degrees of the infection indicated by each respective the~~ vital data or changes over time of the geographical distributions based on at least one of the (i) measurement position information and (ii) residence information included ~~in the sets~~ each

respective set of information identifying a respective subject of a plurality of subjects that are
stored in the database; and

providing the receiving apparatus with the ~~made~~ value-added information.

Claim 28 (Cancelled)

Claim 29 (Currently Amended) A receiving apparatus in a system in which a server, said receiving apparatus and a plurality of measurement instruments are connected ~~to each other~~ via a communication network, said receiving apparatus comprising:

an output ~~unit~~ device operable to receive information provided by the server, and operable to present and output, ~~by presenting~~, the received information,

wherein, ~~in the system~~, each of the measurement instruments includes:

a vital data measurement ~~unit~~ device operable to measure respective vital data of a respective subject, the vital data serving as an indicator of infection;

a clock ~~unit~~ device operable to detect a respective measurement time at which the respective vital data is measured; and

a sending ~~unit~~ device operable to send, to the server, a respective set of information including the respective ~~measured~~ vital data and the respective measurement time, wherein the server includes:

a receiving ~~unit~~ device operable to receive a plurality of sets of information, each respective set of information including the respective vital data and the respective measurement time, the plurality of sets of information being received from a the plurality of measurement

instruments, ~~a plurality of sets of information, one of which being the set of information;~~

a storage ~~unit~~device operable to ~~hold~~ store each respective set of information of the plurality of sets of information, each set of information being stored in association with at least one of (i) measurement position information indicating a position of a~~positions of~~ respective measurement instrument of the plurality of measurement instruments and (ii) residence information indicating a position of a residence of a subject~~positions of subjects~~² ~~residences~~ at which the respective measurement ~~instrument-instruments-are~~ is placed;

a database making ~~unit~~device operable to store the ~~received~~ plurality of received sets of information into the storage ~~unit~~device and operable to make a database including the plurality of received sets of information, each respective set of information being stored in the database in association with at least one of the (i) measurement position information and (ii) residence information;

a value-added information making ~~unit~~device operable to process each respective vital data of each respective set of information stored in the database for each respective subject identified~~compute the vital data of a plurality of subjects~~ stored in the database in association with the respective measurement time and operable to make, from the processed respective vital data of each respective set of information stored in the database for each subject identified in the database in association with the respective measurement time, value-added information indicating, using contour lines on maps,~~a geographical distributions-~~ distribution of epidemic degrees of the infection indicated by each respective~~the vital data or~~ changes over time of the geographical distributions of epidemic degrees of the infection indicated by each respective vital data; and

a value-added information providing ~~unit~~device operable to provide said receiving apparatus with the ~~made~~ value-added information~~[[,]]; and~~

wherein said output ~~unit~~device is operable to receive the value-added information provided by said value-added information providing ~~unit~~device, and operable to present and output, by presenting, using the contour lines on the maps, the geographical distributions of the epidemic degrees of the infection~~the value-added information.~~

Claim 30 (Currently Amended) The receiving apparatus according to Claim 29, the receiving apparatus being a mobile type apparatus and further comprising

——a present position detection ~~unit~~device operable to detect a present position,

wherein said output ~~unit~~device is operable to receive value-added information indicating a geographical distribution of epidemic degrees of the infection indicated by each respective~~the~~ vital data ~~of the plurality of respective~~ subjects located~~who are~~ at the detected present position and located at a peripheral part of the detected present position, and operable to present and output, by presenting, the value-added information using the contour lines on the maps, the geographical distributions of the epidemic degrees of the infection.